Pre-proposal Conference: Export Control



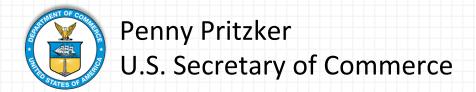


Office of International and Interagency Relations Export Control and Interagency Liaison Division





...export controls do not exist simply as another set of regulations... They exist to ensure our technological superiority is never employed against us on the battlefield... They exist to ensure our security – our national security, our homeland security, our cybersecurity, and our economic security."



What are Export Controls?



Export controls are restrictions applied by national governments to the transfer of items to foreign persons and destinations.





What is an Export?



An export is the transfer of anything to a foreign person or a foreign destination by any means, anywhere, anytime.

An export can involve a
 commodity, software, technical
 data, technology, providing a
 defense service, and/or
 providing technical assistance.





Compliance is Part of the NASA Mission



"It is NASA policy to ensure that exports and transfers of commodities, technical data, or software to foreign persons are carried out in accordance with United States export control laws and regulations, and Administration and NASA policy."

-NPD 2190.1, Section 1.a.

"We want to maximize the benefits of our international efforts while ensuring that we comply with U.S. export control laws and regulations. This is the personal responsibility of each employee."

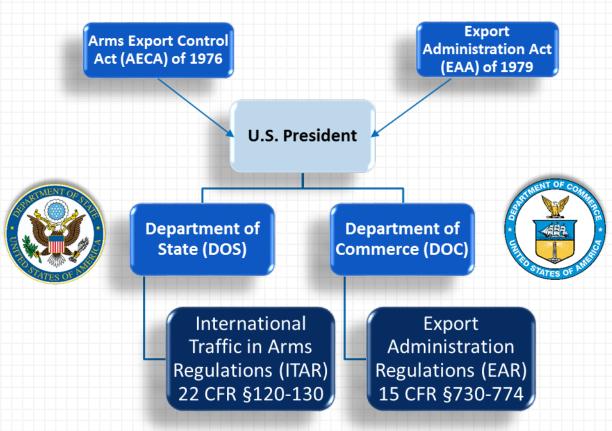
-NPR 2190.1B, Section P.1.

Compliance is everyone's job at NASA



Export Control Laws and Regulations





- The goal of these laws and regulations is to protect our national security and policy interests.
- Both the ITAR and the EAR include criminal and civil penalties for export control violations that can result in monetary penalties, imprisonment, or both.



Export Control Laws and Regulations





Dept. of State

The ITAR controls the export of goods and technical data that are principally used in military or intelligence applications, including critical defense articles, services, and technologies. These items are identified on the United States Munitions List (USML), and include certain items listed in the Missile Technology Control Regime (MTCR) Annex.



Dept. of Commerce

The **EAR** controls goods and technologies that have civil, commercial, military, and intelligence applications. These items are identified on the **Commerce Control List (CCL)**, including certain items found in the **MTCR Annex**.

If an item is listed on the USML or the CCL, an export authorization is required.



United States Munitions List (USML)



I - Firearms, Close Assault Weapons, and Combat Shotguns

II - Guns and Armament

III - Ammunition/Ordnance

IV - Launch Vehicles, Guided Missiles, Ballistic Missiles, Rockets, Torpedoes, Bombs, and Mines

V - Explosives and Energetic Materials, Propellants, Incendiary Agents and Their Constituents

VI – Surface Vessels of War and Special Naval Equipment

VII - Ground Vehicles

VIII - Aircraft and Related Articles

IX - Military Training Equipment and Training

X - Personal Protective Equipment

XI - Military Electronics

XII - Fire Control, Range Finder, Optical and Guidance and Control Equipment

XIII - Materials and Miscellaneous Articles

XIV - Toxicological Agents, Including Chemical Agents, Biological Agents, and Associated Equipment

XV - Spacecraft and Related Articles

XVI - Nuclear Weapons Related Articles

XVII - Classified Articles, Technical Data and Defense Services Not Otherwise Enumerated

XVIII - Directed Energy Weapons

XIX - Gas Turbine Engines and Associated Equipment

XX - Submersible Vessels and Related Articles

XXI - Articles, Technical Data, and Defense Services Not Otherwise Enumerated



Commerce Control List (CCL)



Category 0 - Nuclear Materials, Facilities and Equipment and Misc.

Microorganisms and Toxins

Category 2 - Materials Processing

Category 3 - Electronics

Category 4 – Computers

Category 1 - Materials, Chemicals, Category 5 - Telecommunications and Information Security

Category 6 - Lasers and Sensors

Category 7 - Navigation and **Avionics**

Category 8 - Marine

Category 9 - Propulsion Systems,



Technical Data and Defense Services



The Department of State (DOS) has specific definitions of technical data and defense services:

Technical Data

Technical data is information that is required for the design, development, production, manufacture, assembly, operation, repair, testing, maintenance or modification of an export-controlled item and must be protected in accordance with export control regulations (ITAR).

Defense Services

The furnishing of assistance (including training) to foreign persons, whether in the United States or abroad in the design, development, engineering, manufacture, production, assembly, testing, repair, maintenance, modification, operation, demilitarization, destruction, processing or use of defense articles (ITAR).



Technology



The Department of Commerce (DOC) has a specific definition of technology:

Technology

Per DOC, technology is specific information necessary for the "development," "production," or "use" of a product. The information takes the form of "technical data" or "technical assistance" (EAR).



Technology



DOC has specific definitions of technical data and technical assistance:

Technical Data

Per DOC, technical data may take forms such as blueprints, plans, diagrams, models, formulae, tables, engineering designs and specifications, manuals and instructions written or recorded on other media or devices such as disk, tape, read only memories.

Technical Assistance

Per DOC, technical assistance may take forms such as instruction, skills, training, working knowledge, consulting services. Technical assistance may involve transfer of technical data.



Export Control Reform



Objective: to protect U.S. National Security

- "Higher fence around a smaller yard"
- Must be multilateral to be effective
- Reflect changing technology/availability
- Transparent, predictable and timely processes
- Strengthen ability to comply, enforce

www.export.gov/ecr



Examples of USML Critical Technology Items



- Missile or rocket thrust vector control systems
- Some radar systems and equipment
- Space launch vehicle payload fairings
- Some infrared focal plane array detectors
- Space-qualified optics with clear aperture greater than 0.35 meters
- Space-qualified mechanical cryocoolers
- Some space-qualified atomic clocks
- Thrusters that provide greater that 150 lbf vacuum thrust
- High-accuracy space-qualified start tracker or star sensor
- Spacecraft heat shields or heat sinks designed for atmospheric entry
- Integration of a satellite or spacecraft to a launch vehicle, including both planning and onsite support



When Licenses are Required to Export



In nearly all cases, the following require a license:

- Transfers involving Missile Technology (MT)
- Information required for the detailed design, development, production, or manufacturing of ITAR defense articles
- The permanent transfer of ITAR hardware on the USML
- Transfer of hardware or technical data involving a foreign person in or from a proscribed country



Proscribed Countries§126.1



- If a country appears on the "proscribed country" list, it is generally U.S. policy to deny licenses, or other approvals, associated with exports and imports of defense articles and defense services, destined for or originating in that country.
- ITAR License Exemptions are <u>trumped</u> if a "foreign person" from any of these counties is involved; i.e., a license <u>must be applied for.</u>
- EAR Mirrors the ITAR 126.1 List Country Group D:5



ITAR Proscribed Countries § 126.1

(EAR Mirrors the ITAR List – Country Group D:5)



- AFGHANISTAN (Case-by-Case)
- BELARUS
- BURMA
- CENTRAL AFRICAN REPUBLIC (Case-by-Case)
- CHINA (PRC)
- CONGO (Case-by-Case)
- COTE D'IVOIRE (Case-by-Case)
- CUBA
- CYPRUS (Case-by-Case)
- FRITRFA
- HAITI (Case-by-Case)
- IRAN

- IRAQ (Case-by-Case)
- LEBANON (Case-by-Case)
- LIBERIA (Case-by-Case)
- LIBYA (Case-by-Case)
- NORTH KOREA
- SOMALIA (Case-by-Case)
- SRI LANKA (Case-by-Case)
- REPUBLIC OF SUDAN (Case-by-Case)
- SYRIA
- VENEZUELA
- VIETNAM (Case-by-Case)
- ZIMBABWE (Case-by-Case)

List is updated by Federal Register Notice Current as of 2 August 2016



Proposal Best Practices



- Mark or identify export-controlled and proprietary information in proposals
 - Marking either pages, sections, or paragraphs
- Identify all foreign partners and participants
- Understand your responsibilities under the U.S. export control regulations
 - Articulate your export control plans



NASA's International Agreements



NASA's International Agreements - the basis for NASA foreign cooperative (or reimbursable) activity

 define the responsibilities of the parties, scope of the work to be performed, & the terms and conditions under which the cooperation will be effected

All NASA International Agreements contain a clause on transfers of controlled goods & data

NASA's International Agreements do **NOT** trump export control laws & regulations

An International Agreement does not replace a contractor's need for a license or other export authorization.



NASA Contractors and Export Control



- NASA provides review of licenses submitted to the Department of State and the Department of Commerce
- NASA contractors, should be coordinating with NASA in advance of any license application that will further a NASA program
- NPD/NPR 2190 is applicable to NASA contractors and grantees as required in their contracts or grants
- Contractor is responsible for export compliance in the execution of contracted work (NFS 1825.1103-70 and 1852.225-70)
 - Except when NASA directs or authorizes a contractor to effect exports using a NASA-obtained IVL or GBL
 - NFS Clause 1852.225-70 "Export Licenses" required in all domestic contracts
 - Contractors have responsibility to obtain any required licenses unless otherwise agreed with NASA



NASA & Contractor Best Practices



- Early coordination among the NASA Program/Project Managers,
 Contractor(s), and NASA Headquarters or Center Export
 Administrator will benefit programs/projects.
 - Understand what is controlled
 - Identify international parties involved
 - Add export milestones to program/project schedule
 - Develop technology transfer control plan
 - Coordinate meetings with international partner(s) well in advance
- Mark/determine the export jurisdiction of data/hardware when created or acquired
- Recordkeeping



Important Links



The Department of State is the regulatory authority for defense articles and defense services. http://www.pmddtc.state.gov/

The Department of Commerce is the regulatory authority for dual-use items.

http://www.bis.doc.gov/

The NASA Export Control Program is at http://oiir.hq.nasa.gov/nasaecp/index.html.





